



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/612,466
Source: OIPF
Date Processed by STIC: 8/11/2003

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 04/24/2003



OICE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/612,466

DATE: 08/11/2003

TIME: 13:38:59

Input Set : A:\1625seq.001

Output Set: N:\CRF4\08112003\J612466.raw

3 <110> APPLICANT: Madison, Edwin
 4 Ong, Edgar
 5 Yeh, Juinn-Chern
 7 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING SERINE PROTEASE 16, THE
 8 ENCODED PROTEINS AND METHODS BASED THEREON
 10 <130> FILE REFERENCE: 24745-1625
 12 <140> CURRENT APPLICATION NUMBER: US/10/612,466
 13 <141> CURRENT FILING DATE: 2003-07-01
 15 <150> PRIOR APPLICATION NUMBER: 60/394,347
 W--> 16 <151> PRIOR FILING DATE: 02-JUL-02 2002-07-02
 18 <160> NUMBER OF SEQ ID NOS: 22
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 3147
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo Sapien
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 29 <222> LOCATION: (23)...(2589)
 30 <223> OTHER INFORMATION: Nucleotide sequence encoding MTSP1
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 34 <309> DATABASE ENTRY DATE: 2000-08-31
 36 <400> SEQUENCE: 1
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 39 1 5 10
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 42 Gly Gly Pro Lys Asp Phe Gly Ala Gly Leu Lys Tyr Asn Ser Arg His
 43 15 20 25
 45 gag aaa gtg aat ggc ttg gag gaa ggc gtg gag ttc ctg cca gtc aac 148
 46 Glu Lys Val Asn Gly Leu Glu Glu Gly Val Glu Phe Leu Pro Val Asn
 47 30 35 40
 49 aac gtc aag aag gtg gaa aag cat ggc ccg ggg cgc tgg gtg gtg ctg 196
 50 Asn Val Lys Lys Val Glu Lys His Gly Pro Gly Arg Trp Val Val Leu
 51 45 50 55
 53 gca gcc gtg ctg atc ggc ctc ctc ttg gtc ttg ctg ggg atc ggc ttc 244
 54 Ala Ala Val Leu Ile Gly Leu Leu Leu Val Leu Leu Gly Ile Gly Phe
 55 60 65 70
 57 ctg gtg tgg cat ttg cag tac cgg gac gtg cgt gtc cag aag gtc ttc 292
 58 Leu Val Trp His Leu Gln Tyr Arg Asp Val Arg Val Gln Lys Val Phe
 59 75 80 85 90
 61 aat ggc tac atg agg atc aca aat gag aat ttt gtg gat gcc tac gag 340

use this date format
Does Not Comply
Corrected Diskette Needed

Does Not Comply
Corrected Diskette Needed

see p. 6

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67				110						115					120		
69	gcg	ctg	aag	ctg	ctg	tac	agc	gga	gtc	cca	ttc	ctg	ggc	ccc	tac	cac	436
70	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	Phe	Leu	Gly	Pro	Tyr	His	
71			125						130					135			
73	aag	gag	tgc	gct	gtg	acg	gcc	ttc	agc	gag	ggc	agc	gtc	atc	gcc	tac	484
74	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	Gly	Ser	Val	Ile	Ala	Tyr	
75		140					145						150				
77	tac	tgg	tct	gag	ttc	agc	atc	ccg	cag	cac	ctg	gtg	gag	gag	gcc	gag	532
78	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	Leu	Val	Glu	Glu	Ala	Glu	
79	155					160					165					170	
81	cgc	gtc	atg	gcc	gag	gag	cgc	gta	gtc	atg	ctg	ccc	ccg	cgg	gcg	cgc	580
82	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met	Leu	Pro	Pro	Arg	Ala	Arg	
83				175						180					185		
85	tcc	ctg	aag	tcc	ttt	gtg	gtc	acc	tca	gtg	gtg	gct	ttc	ccc	acg	gac	628
86	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val	Val	Ala	Phe	Pro	Thr	Asp	
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89	tcc	aaa	aca	gta	cag	agg	acc	cag	gac	aac	agc	tgc	agc	ttt	ggc	ctg	676
90	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn	Ser	Cys	Ser	Phe	Gly	Leu	
91		205						210					215				
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94	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe	Thr	Thr	Pro	Gly	Phe	Pro	
95		220					225					230					
97	gac	agc	ccc	tac	ccc	gct	cat	gcc	cgc	tgc	cag	tgg	gcc	ctg	cgg	ggg	772
98	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg	Cys	Gln	Trp	Ala	Leu	Arg	Gly	
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105	tcc	tgc	gac	gag	cgc	ggc	agc	gac	ctg	gtg	acg	gtg	tac	aac	acc	ctg	868
106	Ser	Cys	Asp	Glu	Arg	Gly	Ser	Asp	Leu	Val	Thr	Val	Tyr	Asn	Thr	Leu	
107			270						275					280			
109	agc	ccc	atg	gag	ccc	cac	gcc	ctg	gtg	cag	ttg	tgt	ggc	acc	tac	cct	916
110	Ser	Pro	Met	Glu	Pro	His	Ala	Leu	Val	Gln	Leu	Cys	Gly	Thr	Tyr	Pro	
111		285						290					295				
113	ccc	tcc	tac	aac	ctg	acc	ttc	cac	tcc	tcc	cag	aac	gtc	ctg	ctc	atc	964
114	Pro	Ser	Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser	Gln	Asn	Val	Leu	Leu	Ile	
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118	Thr	Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His	Pro	Gly	Phe	Glu	Ala	Thr	
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121	ttc	ttc	cag	ctg	cct	agg	atg	agc	agc	tgt	gga	ggc	cgc	tta	cgt	aaa	1060
122	Phe	Phe	Gln	Leu	Pro	Arg	Met	Ser	Ser	Cys	Gly	Gly	Arg	Leu	Arg	Lys	
123				335						340				345			
125	gcc	cag	ggg	aca	ttc	aac	agc	ccc	tac	tac	cca	ggc	cac	tac	cca	ccc	1108
126	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr	Pro	Gly	His	Tyr	Pro	Pro	

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Input Set : A:\1625seq.001

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130	Asn Ile Asp	Cys Thr Trp Asn Ile	Glu Val Pro Asn Asn	Gln His Val				
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133	aag gtg agc	ttc aaa ttc ttc	tac ctg ctg gag ccc	ggc gtg cct gcg	1204			
134	Lys Val Ser	Phe Lys Phe Phe	Tyr Leu Leu Glu Pro	Gly Val Pro Ala				
135		380		385		390		
137	ggc acc tgc	ccc aag gac tac	gtg gag atc aat ggg	gag aaa tac tgc	1252			
138	Gly Thr Cys	Pro Lys Asp Tyr Val	Glu Ile Asn Gly Glu	Lys Tyr Cys				
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141	gga gag agg	tcc cag ttc gtc gtc	acc agc aac agc aac	aag atc aca	1300			
142	Gly Glu Arg	Ser Gln Phe Val Val	Thr Ser Asn Ser Asn	Lys Ile Thr				
143		415		420		425		
145	gtt cgc ttc	cac tca gat cag tcc	tac acc gac acc ggc	ttc tta gct	1348			
146	Val Arg Phe	His Ser Asp Gln Ser	Tyr Thr Asp Thr Gly	Phe Leu Ala				
147		430		435		440		
149	gaa tac ctc	tcc tac gac tcc agt	gac cca tgc ccg ggg	cag ttc acg	1396			
150	Glu Tyr Leu	Ser Tyr Asp Ser Ser	Asp Pro Cys Pro Gly	Gln Phe Thr				
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153	tgc cgc acg	ggg cgg tgt atc cgg	aag gag ctg cgc tgt	gat ggc tgg	1444			
154	Cys Arg Thr	Gly Arg Cys Ile Arg	Lys Glu Leu Arg Cys	Asp Gly Trp				
155		460		465		470		
157	gcc gac tgc	acc gac cac agc gat	gag ctc aac tgc agt	tgc gac gcc	1492			
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161	ggc cac cag	ttc acg tgc aag aac	aag ttc tgc aag ccc	ctc ttc tgg	1540			
162	Gly His Gln	Phe Thr Cys Lys Asn	Lys Phe Cys Lys Pro	Leu Phe Trp				
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165	gtc tgc gac	agt gtg aac gac tgc	gga gac aac agc gac	gag cag ggg	1588			
166	Val Cys Asp	Ser Val Asn Asp Cys	Gly Asp Asn Ser Asp	Glu Gln Gly				
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169	tgc agt tgt	ccg gcc cag acc ttc	agg tgt tcc aat ggg	aag tgc ctc	1636			
170	Cys Ser Cys	Pro Ala Gln Thr Phe	Arg Cys Ser Asn Gly	Lys Cys Leu				
171		525		530		535		
173	tcg aaa agc	cag cag tgc aat ggg	aag gac gac tgt ggg	gac ggg tcc	1684			
174	Ser Lys Ser	Gln Gln Cys Asn Gly	Lys Asp Asp Cys Gly	Asp Gly Ser				
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177	gac gag gcc	tcc tgc ccc aag gtg	aac gtc gtc act tgt	acc aaa cac	1732			
178	Asp Glu Ala	Ser Cys Pro Lys Val	Asn Val Val Thr Cys	Thr Lys His				
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181	acc tac cgc	tgc ctc aat ggg ctc	tgc ttg agc aag ggc	aac cct gag	1780			
182	Thr Tyr Arg	Cys Leu Asn Gly Leu	Cys Leu Ser Lys Gly	Asn Pro Glu				
183		575		580		585		
185	tgt gac ggg	aag gag gac tgt agc	gac ggc tca gat gag	aag gac tgc	1828			
186	Cys Asp Gly	Lys Glu Asp Cys Ser	Asp Gly Ser Asp Glu	Lys Asp Cys				
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189	gac tgt ggg	ctg cgg tca ttc acg	aga cag gct cgt gtt	ggt ggg ggc	1876			
190	Asp Cys Gly	Leu Arg Ser Phe Thr	Arg Gln Ala Arg Val	Val Gly Gly				
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197 ctg ggc cag ggc cac atc tgc ggt gct tcc ctc atc tct ccc aac tgg 1972
198 Leu Gly Gln Gly His Ile Cys Gly Ala Ser Leu Ile Ser Pro Asn Trp
199 635      640      645      650
201 ctg gtc tct gcc gca cac tgc tac atc gat gac aga gga ttc agg tac 2020
202 Leu Val Ser Ala Ala His Cys Tyr Ile Asp Asp Arg Gly Phe Arg Tyr
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205 tca gac ccc acg cag tgg acg gcc ttc ctg ggc ttg cac gac cag agc 2068
206 Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu Gly Leu His Asp Gln Ser
207      670      675      680
209 cag cgc agc gcc cct ggg gtg cag gag cgc agg ctc aag cgc atc atc 2116
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211      685      690      695
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214 Ser His Pro Phe Phe Asn Asp Phe Thr Phe Asp Tyr Asp Ile Ala Leu
215      700      705      710
217 ctg gag ctg gag aaa ccg gca gag tac agc tcc atg gtg cgg ccc atc 2212
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221 tgc ctg ccg gac gcc tcc cat gtc ttc cct gcc ggc aag gcc atc tgg 2260
222 Cys Leu Pro Asp Ala Ser His Val Phe Pro Ala Gly Lys Ala Ile Trp
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225 gtc acg ggc tgg gga cac acc cag tat gga ggc act ggc gcg ctg atc 2308
226 Val Thr Gly Trp Gly His Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile
227      750      755      760
229 ctg caa aag ggt gag atc cgc gtc atc aac cag acc acc tgc gag aac 2356
230 Leu Gln Lys Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asn
231      765      770      775
233 ctc ctg ccg cag cag atc acg ccg cgc atg atg tgc gtg ggc ttc ctc 2404
234 Leu Leu Pro Gln Gln Ile Thr Pro Arg Met Met Cys Val Gly Phe Leu
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237 agc ggc ggc gtg gac tcc tgc cag ggt gat tcc ggg gga ccc ctg tcc 2452
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247      830      835      840
249 cct ctg ttt cgg gac tgg atc aaa gag aac act ggg gta ta ggggccgggg 2599
250 Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn Thr Gly Val
251      845      850      855
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254 ggctggagac tggaccgctg actgcaccag cgccccaga acatacactg tgaactcaat 2719
255 ctccagggtt ccaaactctg ctagaaaacc tctcgcttcc tcagcctcca aagtggagct 2779
256 gggaggtaga aggggaggac actggtggtt ctactgaccc aactgggggc aaaggtttga 2839

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259 ggctgccgga tctgggctgt ggggcccttg ggccacgctc ttgaggaagc ccaggctcgg 3019
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265 <211> LENGTH: 855
266 <212> TYPE: PRT
267 <213> ORGANISM: Homo Sapien
269 <400> SEQUENCE: 2
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275 35 40 45
276 Lys His Gly Pro Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly
277 50 55 60
278 Leu Leu Leu Val Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln
279 65 70 75 80
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284 Phe Val Ser Leu Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr
285 115 120 125
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287 130 135 140
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289 145 150 155 160
290 Ile Pro Gln His Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu
291 165 170 175
292 Arg Val Val Met Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val
293 180 185 190
294 Val Thr Ser Val Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg
295 195 200 205
296 Thr Gln Asp Asn Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu
297 210 215 220
298 Leu Met Arg Phe Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala
299 225 230 235 240
300 His Ala Arg Cys Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu
301 245 250 255
302 Ser Leu Thr Phe Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly
303 260 265 270
304 Ser Asp Leu Val Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His
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10/6/2466 6

<210> SEQ ID NO 21

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<213> Homo Sapien

<220> FEATURE:

<223> OTHER INFORMATION: :

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35 40 45
Ala Ser Cys Trp Val Leu Gly Trp Lys Glu Pro Gln Asp Arg Val Pro
50 55 60
Val Ala Ala Ala Val Ser Ile Leu Thr Gln Arg Ile Cys Asp Cys Leu
65 70 75 80
Tyr Gln Gly Ile Leu Pro Pro Gly Thr Leu Cys Val Leu Tyr Ala Glu
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Gly Gln Glu Asn Arg Cys Glu
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which response is the valid one?

If it is "Artificial Sequence" include <220>-<223>

section
and explanation
of source
material on
<223> line

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<211> LENGTH: 37

<212> TYPE: PRT

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<213> Homo Sapien

<220> FEATURE:

<223> OTHER INFORMATION: :

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Phe Phe Pro Leu Gln
35

same error